



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G01N 1/14, 35/10, G02B 21/34		A1	(11) International Publication Number: WO 99/36760
			(43) International Publication Date: 22 July 1999 (22.07.99)
(21) International Application Number: PCT/US99/00730		(72) Inventors; and	
(22) International Filing Date: 13 January 1999 (13.01.99)		(75) Inventors/Applicants (for US only): OVERBECK, James, W. [US/US]; 112 Martins Lane, Hingham, MA 02043 (US). FLOWERS, Peter, T. [US/US]; 1275 Brook Road, Milton, MA 02186 (US). MONTAGU, Jean, I. [US/US]; 76 Walnut Place, Brookline, MA 02445 (US). MACE, Myles, L. [US/US]; 124 Farm Street, Dover, MA 02003 (US). HONKANEN, Peter [US/US]; 1 School Street, Arlington, MA 02174 (US).	
(30) Priority Data:		(74) Agent: WILLIAMS, John, N.; Fish & Richardson P.C., 225 Franklin Street, Boston, MA 02110-2804 (US).	
09/006,344 13 January 1998 (13.01.98) US			
09/045,547 20 March 1998 (20.03.98) US			
09/079,324 14 May 1998 (14.05.98) US			
09/122,216 24 July 1998 (24.07.98) US			
(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Applications		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	
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US 09/079,324 (CON)			
Filed on 14 May 1998 (14.05.98)			
US 09/122,216 (CON)			
Filed on 24 July 1998 (24.07.98)			
(71) Applicant (for all designated States except US): GENETIC MICROSYSTEMS, INC. [US/US]; 34 Commerce Way, Woburn, MA 01801 (US).		Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.	
(54) Title: DEPOSITING FLUID SPECIMENS ON SUBSTRATES, RESULTING ORDERED ARRAYS, TECHNIQUES FOR ANALYSIS OF DEPOSITED ARRAYS			
(57) Abstract			
A deposit device (12) cooperating with a fluid source defines a precisely sized drop of fluid (DF) of small diameter on a drop carrying surface (20). Transport mechanism (17) positions the device (12) precisely over the receiving surface (20) and drive mechanism (17) moves the deposit device (12) toward and away from the surface (20). The deposit device (12) is compliant in the direction of deposition motion. When depositing, the deposit device (12) is laterally constrained to a reference position by flexure mounting. A mobile-fluid storage device resupplies the deposit device along the array. Mobile annular storage rings (14) are lowered and raised to obtain a supply of fluid, or a mobile multiwell plate is used. Cleaning mechanism, sampling plans, and array products on microscope slides and fragile or soft membranes are disclosed as are many types of fluids and uses, e.g. in biotechnology, analysis and process control.			